Form Approved Through 05/2004 OMB No--0925-0001

	ment of Health and Huma					OND	100323-0001
Departi	LEAVE BLANK—FOR PHS USE ONLY. Type Activity Number						
	Public Health Service		Type Ac	aivity	Number Formerly		
	Frant Applicat		, , , , , , , , , , , , , , , , , , ,				
	Follow instructions caref -character length restrict		Council/Board (Month, Year) Date Received				
TITLE OF PROJECT	-criaracter lerigiti restricti	ons, including spaces.					
i. The of those of							
2. RESPONSE TO SPE (If "Yes," state number an		PPLICATIONS OR PROGRAM	1 ANNOUNCEMENT C	OR SOLICITAT	TION N	O 🗌 YES	
Number:	Title:						
3. PRINCIPAL INVESTIG		ECTOR	New Investigator	□ No □	Yes		
3a. NAME (Last, first, mic			3b. DEGREE(S)] 163		
oa. Will (Last, mot, mi	adio)		OB. DEGILEE(O)				
3c. POSITION TITLE			3d. MAILING ADDF	DESS (Stroot	oity ototo -	zin oodo)	
3C. POSITION TITLE			30. MAILING ADDI	KESS (Sireei,	City, State, 2	zip code)	
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3e. DEPARTMENT, SER	VICE, LABORATORY, C	R EQUIVALENT					
3f. MAJOR SUBDIVISIO	N						
3g. TELEPHONE AND FA	AX (Area code, number	and extension)	E-MAIL ADDRESS:				
TEL:	FAX:						
4. HUMAN SUBJECTS RESEARCH	4a. Research Exempt If "Yes," Exemption No.	☐ No ☐ Yes	5. VERTEBRATE A	ANIMALS [No 🗆	Yes	
☐ No	4b. Human Subjects	4c. NIH-defined Phase III	5a. If "Yes," IACUC a	approval Date	5b. Animal	welfare assu	irance no
Yes	Assurance No.	Clinical Trial					
		☐ No ☐ Yes					
6. DATES OF PROPOSI SUPPORT (month, d	ED PERIOD OF ay, year—MM/DD/YY)	7. COSTS REQUESTED FOR BUDGET PERIOD	R INITIAL		REQUESTE OF SUPPO		OPOSED
From	Through	7a. Direct Costs (\$)	7b. Total Costs (\$)	8a. Direct Co	osts (\$)	8b. Total C	osts (\$)
9. APPLICANT ORGAN	IZATION		10. TYPE OF ORG	ANIZATION			
Name			Public: →	Federal	☐ State	☐ Lo	ocal
Address			Private: →	Private Nor	nprofit		
7 taarooo			For-profit: →	General] Small Bus	siness	
			☐ Woman-owned ☐ Socially and Economically Disadvantaged				
			11. ENTITY IDENTIFICATION NUMBER				
			DUNS NO. (if availa	ble)			
Institutional Profile File Nu	umbor (if known)		Congressional District				
12. ADMINISTRATIVE O	,	D IF AWARD IS MADE	13. OFFICIAL SIGN		PLICANT O	RGANI7AT	ION
Name			Name		J.		-
Title			Title				
Address			Address				
Telephone	F	AX	Telephone		FA	ΑX	
E-Mail			E-Mail				
statements herein are true, aware that any false, fictitio criminal, civil, or administrativ	complete and accurate to to ous, or fraudulent statement we penalties. I agree to acc	R ASSURANCE: I certify that the he best of my knowledge. I am ts or claims may subject me to ept responsibility for the scientific so reports if a grant is awarded as	SIGNATURE OF PI (In ink. "Per" signatu				DATE
		ACCEPTANCE: I certify that the	SIGNATURE OF OF	_	_		DATE
statements herein are true, co accept the obligation to comp is awarded as a result of this statements or claims may sub	(In ink. "Per" signatu	re not accepta	able.)				

Principa	al Investigator/Program Director (Last, first, mida	dle):
the research design and methods for achieving serve as a succinct and accurate description of	these goals. Avoid summaries of past accomplish	erence to the health relatedness of the project. Describe concise hments and the use of the first person. This abstract is meant application. If the application is funded, this description, as is, we EXCEED THE SPACE PROVIDED.
PERFORMANCE SITE(S) (organization, city,	, state)	
KEY PERSONNEL. See instructions. Use of	ontinuation pages as needed to provide the requi	ired information in the format shown below.
Start with Principal Investigator. List all other I	key personnel in alphabetical order, last name fil	rst.
Name	Organization	Role on Project
Disclosure Permission Statement. Applical	ble to SBIR/STTR Only. See instructions. Y	res ☐ No
PHS 398 (Rev. 05/01)		Form Page

Number pages consecutively at the bottom throughout the application. Do <u>not</u> use suffixes such as 3a, 3b.

The name of the principal investigator/program director must be provided at the top of each printed page and each continuation page. Type density and size must conform to limits and specifications provided in the PHS 398 Instructions.

RESEARCH GRANT

TABLE OF CONTENTS

Page Numbers

Face Desc		1 -	
	ription, Performance Sites, and Personnele of Contents		-
	led Budget for Initial Budget Period		
	get for Entire Proposed Period of Support		
	ets Pertaining to Consortium/Contractual Arrangements		
_	raphical Sketch—Principal Investigator/Program Director (Not to exceed four pages)		
_	r Biographical Sketches (Not to exceed four pages for each)		
	r Support		
	urces		
Nesc	WI 063		
Rese	arch Plan		
	u. v		
Introdu	uction to Revised Application (Not to exceed 3 pages)		
	iction to Supplemental Application (Not to exceed one page)		
	Specific Aims	į	
В.	Background and Significance		
C.	Preliminary Studies/Progress Report/ (Items A-D: not to exceed 25 pages*)		
	Phase I Progress Report (SBIR/STTR Phase II ONLY)		
	Research Design and Methods		
E.	Human Subjects		
	Protection of Human Subjects (Required if Item 4 on the Face Page is marked "Yes")		
	Inclusion of Women (Required if Item 4 on the Face Page is marked "Yes")		
	Inclusion of Minorities (Required if Item 4 on the Face Page is marked "Yes")		
	Inclusion of Children (Required if Item 4 on the Face Page is marked "Yes")		
	Data and Safety Monitoring Plan (Required if Item 4 on the Face Page is marked "Yes" <u>and</u> a Phase I, II, or III clinical trial is proposed		
F.	Vertebrate Animals		
	Literature Cited		
Н.	Consortium/Contractual Arrangements		
I.	Consultants		
J.	Product Development Plan (SBIR/STTR Phase II and Fast-Track ONLY)		
٠.			
	klist		
	R/STTR Phase I applications: Items A-D of the Research Plan are limited to 15 pages.	C	heck if
Appe	endix (Five collated sets. No page numbering necessary for Appendix.)	A	ppendix is
Appen	dices NOT PERMITTED for Phase I SBIR/STTR unless specifically solicited.	in	cluded
Numb	er of publications and manuscripts accepted for publication (not to exceed 10)		

Other items (list):

DETAILED BUDGET FOR INITIAL BUDGET PERIOD DIRECT COSTS ONLY					FROM		THROUGH
PERSONNEL (Applicant organization of	nly)		%		DOLLAR AM	MOUNT REQ	UESTED (omit cents)
NAME	ROLE ON PROJECT	TYPE APPT. (months)	EFFORT ON PROJ.	INST. BASE SALARY	SALARY REQUESTED	FRINGE BENEFIT	
	Principal Investigator						
S	SUBTOTALS						
CONSULTANT COSTS							
EQUIPMENT (Itemize)							
SUPPLIES (Itemize by category)							
TRAVEL							
PATIENT CARE COSTS I	NPATIENT						
	DUTPATIENT						
ALTERATIONS AND RENOVATIONS	(Itemize by categor	у)					
OTHER EXPENSES (Itemize by categor	ory)						
SUBTOTAL DIRECT COSTS F		DGET PE	RIOD				\$
<u> </u>	DIRECT COSTS	DMINIOTO A	TION COOT	<u> </u>			
TOTAL DIRECT COSTS FOR II	FACILITIES AND A				<u> </u>	→	\$
SBIR/STTR Only: FIXED FEE F			1.0.11 14, 1			-	*
ODINOT IN OTHER PEET	LWOLUILD						

Form Page 4

PHS 398 (Rev. 05/01) Page____ Number pages consecutively at the bottom throughout the application. Do <u>not</u> use suffixes such as 3a, 3b.

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п	_
	_

BUDGET FOR ENTIRE PROPOSED PROJECT PERIOD DIRECT COSTS ONLY

BUDGET CA	ATEGORY	INITIAL BUDGET PERIOD		ADDITIONAL YEARS OF SUPPORT REQUESTED				
TOTA	LS	(from Form Page 4)	2nd	3rd	4th	5th		
PERSONNEL: Sai benefits. Applicant only.								
CONSULTANT CO	STS							
EQUIPMENT								
SUPPLIES								
TRAVEL								
PATIENT	INPATIENT							
CARE COSTS	OUTPATIENT							
ALTERATIONS AN RENOVATIONS	ID							
OTHER EXPENSE	S							
SUBTOTAL DIREC	CT COSTS							
CONSORTIUM/	DIRECT							
CONTRACTUAL COSTS	F&A							
TOTAL DIRECT	costs							
TOTAL DIRECT	COSTS FOR	ENTIRE PROPOSED PRO	OJECT PERIOD (Item 8a, Face Page)	[\$		
SBIR/STTR O								

(Add Total Fixed Fee amount to "Total direct costs for entire proposed project period" above and Total F&A/indirect costs from Checklist Form Page, and enter these as "Costs Requested for Proposed Period of Support on Face Page, Item 8b.) JUSTIFICATION. Follow the budget justification instructions exactly. Use continuation pages as needed.

Form Page 5 PHS 398 (Rev. 05/01)



BUDGET JUSTIFICATION PAGE MODULAR RESEARCH GRANT APPLICATION							
Initial Budget Period	Second Year of Support	Third Year of Support	Fourth Year of Support		Fifth Year of Support		
Total Direct Costs Requested for Entire Project Period							

_							_
п	_	rs	_	-	-	_	
_	μ		o	m	m	-	

Consortium

Fixed Fee (SBIR/STTR Only)



BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed for Form Page 2.

Follow this format for each	h person. DO NOT EXCEED		
NAME	POSITION TITLE	<u> </u>	
EDUCATION/TRAINING (Begin with baccalaureate or other initial	professional education, suc	h as nursing, and include postdoo	ctoral training.)
INSTITUTION AND LOCATION	DEGREE (if applicable)		ELD OF STUDY
NOTE: The Biographical Sketch may not exceed limit. A. Positions and Honors. List in chronological ord honors. Include present membership on any Federal Company.	der previous positions,	concluding with your pre	
B. Selected peer-reviewed publications (in chrono	·	•	tted or in preparation.
C. Research Support. List selected ongoing or comfederal support). Begin with the projects that are most overall goals of the projects and responsibilities of prires.	relevant to the research	ch proposed in this applicat	
NAME OF INDIVIDUAL ONGOING/COMPLETED			
Project Number (Principal Investigator) Source Title of Project (or Subproject)	Dates of Project Annual Direct C	(Entire Period of Support) osts	Percent Effort
The major goals of this project are			
	Sample		
ANDERSON, R.R.			
ONGOING 2 R01 HL 00000-13 Anderson (PI) NIH/NHLBI Chloride and Sodium Transport in Airway Epithelia	3/1/97 – 2/2 \$186,529 al Cells	28/00	30%
The major goals of this project are to define the bi and clone the gene(s) involved in transport.	ochemistry of chloride	and sodium transport in air	way epithelial cells
5 R01 HL 00000-07 Baker (PI) NIH/NHLBI Ion Transport in Lungs	4/1/94 - 3/3 \$122,717	31/99	10%
The major goal of this project is to study chloride	and sodium transport ir	n normal and diseased lung	js.
PHS 398/2590 (Rev. 05/01)	Page	Biographi	ical Sketch Format Page

Number pages consecutively at the bottom throughout the application. Do \underline{not} use suffixes such as 3a, 3b.

BIOGRAPHICAL SKETCH

Provide the following information for the key personnel in the order listed for Form Page 2. Follow the sample format (on preceding page) for each person. **DO NOT EXCEED FOUR PAGES.**

NAME	POSITION TITL	POSITION TITLE					
EDUCATION/TRAINING (Begin with baccalaureate or other initial profession	EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)						
INSTITUTION AND LOCATION	DEGREE	VEAD(*)	FIELD OF STUDY				
INSTITUTION AND LOCATION	(if applicable)	YEAR(s)	FIELD OF STODY				
		•	•				

FACILITIES: Specify the facilities to be used for the conduct of the proposed research. Indicate the performance sites and describe capacities, pertinent capabilities, relative proximity, and extent of availability to the project. Under "Other," identify support services such as machine shop, electronics shop, and specify the extent to which they will be available to the project. Use continuation pages if necessary.

Laboratory:			
Clinical:			
Animal:			
Computer:			
Office:			
Othern			
Other:			

MAJOR EQUIPMENT: List the most important equipment items already available for this project, noting the location and pertinent capabilities of each.

PHS 398 (Rev. 05/01)

PHS 398/2590 (Rev. 05/01) Page ____ Continuation Format Page

Principal I	Investigator/Program	Director	(Last,	first,	middle).
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	CHEC	KLIST		_
TYPE OF APPLICATION (Check all	that apply.)			_
NEW application. (This application)	tion is being submitted to the PHS for	the first time.)		
' ` _ '	Phase II: SBIR Phase I Grant No	,		SBIR Fast Track
	Phase II: STTR Phase I Grant No.			STTR Fast Track
REVISION of application numbe	r: r unfunded version of a new, competin	a continuation or su	nnlamental application	
	•	g continuation, or sup	INVENTIONS AND PATEN	NTS
(This application is to extend a t	of grant number: unded grant beyond its current project	period.)	(Competing continuation a	opl. and Phase II only) Previously reported
SUPPLEMENT to grant number			Yes. If "Yes,"	Not previously reported
(This application is for additional	funds to supplement a currently funde	ed grant.)		
CHANGE of principal investigate	or/program director.			
Name of former principal investi	gator/program director:			
FOREIGN application or signific	ant foreign component.			
1. PROGRAM INCOME (See instru All applications must indicate wheth anticipated, use the format below to r	ner program income is anticipated d	uring the period(s) f	for which grant support is	request. If program income is
Budget Period	Anticipated Amount		So	urce(s)
2. ASSURANCES/CERTIFICATIONS	S (See instructions.)			
The following assurances/certification signature of the Official Signing for Al Page of the application. Descriptions are provided in Section III. If unable applicable, provide an explanation an Human Subjects; •Research Using Hersearch on Transplantation of Human Subjects.	oplicant Organization on the Face of individual assurances/ certifications to certify compliance, where d place it after this page.	[Type 1] or revise on Federal Debt; 690); •Handicapp Discrimination (Fe HHS 680 or HHS Research; •Finan	ed [Type 1] applications only •Research Misconduct; •Ci red Individuals (Form HHS 6	0); •Age Discrimination (Form and Human Gene Transfer rept Phase I SBIR/STTR)
Minority Inclusion Policy •Inclusion of	Children Policy Vertebrate Animals			<u> </u>
3. FACILITIES AND ADMINSTRATI	VE COSTS (F&A)/ INDIRECT COSTS	. See specific instruc	tions.	
DHHS Agreement dated:		L	No Facilities And Admir	nistration Costs Requested.
DHHS Agreement being negotia	ated with		Regional Office.	
No DHHS Agreement, but rate	established with		Date	
	application, including the Checklist, on F&A costs is optional for for-profit or		and provided to peer review	wers as confidential information.
a. Initial budget period:	Amount of base \$	x Rate applied	% = F&A cos	ets \$
b. 02 year	Amount of base \$	x Rate applied	% = F&A cos	ets \$
c. 03 year	Amount of base \$	x Rate applied	% = F&A cos	ets \$
d. 04 year	Amount of base \$	x Rate applied	% = F&A cos	sts \$
e. 05 year	Amount of base \$	x Rate applied	% = F&A cos	ets \$
			TOTAL F&A	Costs \$
*Check appropriate box(es):				
Salary and wages base	Modified total dire	ct cost base	Other base (E	Explain)
	ore than one rate involved (Explain)			
Explanation (Attach separate sheet, 4. SMOKE-FREE WORKPLACE		to this question has n	no impact on the review or f	unding of this application \
PHS 398 (Rev. 05/01)		•	io impaci on the review or t	
1 110 030 (INEV. 00/01)	ray	e		Checklist Form Page

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Principal Investigator/Program	Director	(Last	firet	middle)	
FIIIICIDAI IIIVESIIUAIUI/FIUUIAIII	DIFECTOR	(Last.	III St.	IIIIuule).	

Place this form at the end of the signed original copy of the application. Do not duplicate.

PERSONAL DATA ON PRINCIPAL INVESTIGATOR/PROGRAM DIRECTOR

The Public Health Service has a continuing commitment to monitor the operation of its review and award processes to detect—and deal appropriately with—any instances of real or apparent inequities with respect to age, sex, race, or ethnicity of the proposed principal investigator/program director. To provide the PHS with the information it needs for this important task, complete the form below and attach it to the signed original of the application after the Checklist. **Do not attach copies of this form to the duplicated copies of the application.**

Upon receipt of the application by the PHS, this form will be separated from the application. This form will **not** be duplicated, and it will **not** be a part of the review process. Data will be confidential, and will be maintained in Privacy Act record system 09-25-0036, "Grants: IMPAC (Grant/Contract Information)." The PHS requests social Security numbers for accurate identification, referral, and review of applications and for management of PHS grant programs. Provision of the Social Security number is voluntary. No individual will be denied any right, benefit, or privilege provided by law because of refusal to disclose his or her Social Security Number. The PHS requests the Social Security Number under Sections 301 (a) and 487 of the PHS Act as amended (42 USC214a and USC288). All analyses conducted on the date of birth and race and/or ethnic origin data will report aggregate statistical findings only and will not identify individuals. If you decline to provide this information, it will in no way affect consideration of your application. Your cooperation will be appreciated.

DATE OF B	IRTH (MM/DD/YY)	SEX/GENDER
Social Se	curity Number	Female Male
ETHNICI	гү	
I. Do you	consider yourself to be Hispanic or Latino? (See definition below.)	Select one.
	<i>Hispanic or Latino.</i> A person of Mexican, Puerto Rican, Cuban, Sou origin, regardless of race. The term, "Spanish origin," can be used in ad	
	Hispanic or Latino	
	Not Hispanic or Latino	
RACE		
2. What ra	ace do you consider yourself to be? Select one or more of the follo	owing.
	American Indian or Alaska Native. A person having origins in any America, and who maintains tribal affiliation or community attachment.	of the original peoples of North, Central, or South
	Asian. A person having origins in any of the original peopl Indian subcontinent, including, for example, Cambodia, China, India Islands, Thailand, and Vietnam. (Note: Individuals from the Philippine previous data collection strategies.)	, Japan, Korea, Malaysia, Pakistan, the Philippine
	Black or African American. A person having origins in any of the blac "Negro" can be used in addition to "Black" or African American."	ck racial groups of Africa. Terms such as "Haitian" or
	Native Hawaiian or Other Pacific Islander. A person having origin Samoa, or other Pacific Islands.	ns in any of the original peoples of Hawaii, Guam,
	White. A person having origins in any of the original peoples of Europe,	, the Middle East, or North Africa.
	Check here if you do not wish to provide some or all of the above inform	nation.

DO NOT SUBMIT UNLESS REQUESTED

OTHER SUPPORT

There is no "form page" for other support. Information on other support should be provided in the format shown below, using continuation pages as necessary. Include the principal investigator's name at the top and number consecutively with the rest of the application. The sample is intended to provide guidance regarding the type and extent of information requested. Refer to the specific instructions in Section I. For information pertaining to the use of and policy for other support, see "Policy and Additional Guidance."

Format

NAME OF INDIVIDUAL		
ACTIVE/PENDING		
Project Number (Principal Investigator)	Dates of Approved/Proposed Project	Percent Effort
Source	Annual Direct Costs	
Title of Project (or Subproject)		
The major goals of this project are		
OMEDIAD (

OVERLAP (summarized for each individual)

Samples

ANDERSON, R.R.

ACTIVE

2 R01 HL 00000-13 (Anderson) 3/1/97 - 2/28/00NIH/NHLBI

\$186,529

30%

Chloride and Sodium Transport in Airway Epithelial Cells

The major goals of this project are to define the biochemistry of chloride and sodium transport in airway epithelial cells and clone the gene(s) involved in transport.

5 R01 HL 00000-07 (Baker) 4/1/94 - 3/31/9910%

NIH/NHLBI \$122,717

Ion Transport in Lungs

The major goal of this project is to study chloride and sodium transport in normal and diseased lungs.

10% R000 (Anderson) 9/1/96 - 8/31/98

Cystic Fibrosis Foundation \$43,123

Gene Transfer of CFTR to the Airway Epithelium

The major goals of this project are to identify and isolate airway epithelium progenitor cells and express human CFTR in airway epithelial cells.

PENDING

DCB 950000 (Anderson) 12/01/98 - 11/30/0020%

National Science Foundation \$82,163

Liposome Membrane Composition and Function

The major goals of this project are to define biochemical properties of liposome membrane components and maximize liposome uptake into cells.

OVERLAP

There is scientific overlap between aim 2 of NSF DCB 950000 and aim 4 of the application under consideration. If both are funded, the budgets will be adjusted appropriately in conjunction with agency staff.

RICHARDS, L.

NONE

DO NOT SUBMIT UNLESS REQUESTED

OTHER SUPPORT (continued)

HERNANDEZ, M.

ACTIVE

5 R01 CA 00000-07 (Hernandez) 4/1/94 – 3/31/99 40% academic

NIH/NCI

Gene Therapy for Small Cell Lung Carcinoma

The major goals of this project are to use viral strategies to express the normal p53 gene in human SCLC cell lines and to study the effect on growth and invasiveness of the lines.

5 P01 CA 00000-03 (Chen) 7/1/95 – 6/30/00 20% academic NIH/NCI \$104,428 (sub only) 100% summer

Mutations in p53 in Progression of Small Cell Lung Carcinoma

The major goals of this subproject are to define the p53 mutations in SCLC and their contribution to tumor progression and metastasis.

BE 00000 (Hernandez) 9/1/96 – 8/31/99 20% academic

American Cancer Society \$86,732

p53 Mutations in Breast Cancer

The major goals of this project are to define the spectrum of p53 mutations in human breast cancer samples and correlate the results with clinical outcome.

OVERLAP

Potential commitment overlap for Dr. Hernandez between 5 R01 CA 00000-07 and the application under consideration. If the application under consideration is funded with Dr. Hernandez committed at 30 percent effort, Dr.

Hernandez will request approval to reduce her effort on the NCI grant.

BENNETT, P.

ACTIVE

Investigator Award (Bennett) 9/1/96 - 8/31/00 70%

Howard Hughes Medical Institute \$581,317

Gene Cloning and Targeting for Neurological Disease Genes

This award supports the PI's program to map and clone the gene(s) implicated in the development of Alzheimer's disease and to target expression of the cloned gene(s) to relevant cells.

OVERLAP

None

CHU, H.

ACTIVE

94RD000 (Chu) 5/1/97 – 5/30/99 30%

Univ. Respiratory Diseases Coordinating Committee \$48,000 (no salary)

Improved Detection of Non-malignant Lung Diseases

The major goals of this project are to develop and test a sensitive, PCR-based method to discriminate among respiratory fungal infections.

OVERLAP

None

DO NOT SUBMIT UNLESS REQUESTED

Competing Continuation Applications PERSONNEL REPORT

All Key Personnel for the Current Budget Period

Name	All Key Personnel for Degree(s)	SSN	Role on Project (e.g. Pl, Res. Assoc.)	Date of Birth (MM/DD/YY)	Annual % Effort
	209.00(0)	30.1	(e.g. PI, Res. Assoc.)	(MM/DD/YY)	% Effort

PHS 398 (Rev. 05/01) Page ____ Personnel Report Format Page



Use this substitute page for the Table of Contents of Research Career Awards

Type the name of candidate at the top of each printed page and continuation page

RESEARCH CAREER AWARD TABLE OF CONTENTS

(Substitute Page)

Section I: Basic Administrative Data 1-3. Face Page, Description and Key Personnel, Table of Contents (Form pages 1, 2, and this substitute page)			Page Numbers
4. Budget for Entire Proposed Period of Support (Form Page 5). 5. Biographical Sketches (Candidate and Sponsor(s)"—Biographical Sketch Format page) (Not to exceed four pages) 5. Biographical Sketches (Candidate and Sponsor(s)"—Other Support Format page) 7. Resources (Resources Format page). 8. Section II: Specialized Information 1. Introduction to Revised Application (Not to exceed 3 pages) 2. Letters of Reference (Attach to Face Page)* 3. The Candidate 4. Candidates Background 5. Career Goals and Objectives: Scientific Biography 6. Career Development Activities during Award Period 4. Statements by Sponsor(s), Consultant(s)", and Collaborator(s)* 5. Environment and Institutional Commitment to Candidate 6. Research Plan 6. Research Plan 7. A. Statement of Hypothesis and Specific Aims 8. Background, Significance, and Rationale 6. Preliminary Studies and Any Results 7. Preliminary Studies and Any Results 8. D. Research Design and Methods 8. Literature Cited 9. H. Consortium/Contractual Arrangements* 1. Lonsultants* 7. Checklist 8. Appendix (Five collated sets. No page numbering necessary) Number of publications and manuscripts accepted or submitted for publication (not to exceed 6) List of Key Items: Note: Type density and size must conform to limits provided in the Specific Instructions. **Include these items only when applicable. CITIZENSHIIP 1. V. S. Citize or ronocitizen national 8. Permanent resident of U.S. (If a permanent resident of the U.S., a notarized statement must	Section I: Basic Administrative Data		
5. Biographical Sketches (Candidate and Sponsor(s)*—Biographical Sketch Format page) (Not to exceed four pages) 6. Other Support (Mentored Career Award Sponsor(s)*—Other Support Format pages) 7. Resources (Resources Format page) 8. Section II: Specialized Information 1. Introduction to Revised Application (Not to exceed 3 pages) 2. Letters of Reference (Attach to Face Page)* 3. The Candidate* A. Candidate's Background 6. B. Career Goals and Objectives. Scientific Biography C. Career Development Activities during Award Period 4. Statements by Sponsor(s), Consultant(s)*, and Collaborator(s)* 5. Environment and Institutional Commitment to Candidate A. Description of Institutional Environment. B. Institutional Commitment to Candidate A. Description of Institutional Environment. B. Background, Significance, and Rationale C. Preliminary Studies and Any Results D. Research Plan A. Statement of Hypothesis and Specific Aims B. Background, Significance, and Rationale C. Preliminary Studies and Any Results D. Research Design and Methods E. Human Subjects' List appropriate grants with IRB approval dates or exemption designation F. Vertebrate Animals' C. List appropriate grants with IACUC approval dates or exemption designation G. Literature Cited H. Consortium/Contractual Arrangements' I. Consultants 7. Checklist 8. Appendix (Five collated sets. No page numbering necessary) Number of publications and manuscripts accepted or submitted for publication (not to exceed 6) List of Key Items: Note: Type density and size must conform to limits provided in the Specific Instructions. **Include these items only when applicable. CITIZENSHIIP U.S. citzen or noncitizen national	1–3. Face Page, Description and Key Personnel, 7	Fable of Contents (Form pages 1, 2, and this substitute page)	1-
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Page

RCA Substitute Form Page 3

Number pages consecutively at the bottom throughout the application. Do *not* use suffixes such as 3a, 3b.

RESEARCH CAREER AWARD REFERENCE GUIDELINES (Series K)

RCA Reference Report	Application Submission Deadline:
Title of Award:	Type of Award:
Name of Candidate (Last, first, middle):	
Name of Respondent (Last, first, middle):	

The candidate is applying to the National Institutes of Health for a Research Career Award (RCA). The purpose of this award is to develop the research capabilities and career of the applicant. These awards provide up to five years of salary support and guarantee them the ability to devote at least 75–80 percent of their time to research for the duration of the award. Many of these awards also provide funds for research and career development costs. The award is available to persons who have demonstrated considerable potential to become independent researchers, but who need additional supervised research experience in a productive scientific setting.

We would appreciate receiving your evaluation of the above candidate with special reference to:

- potential for conducting research;
- · evidence of originality;
- adequacy of scientific background;
- quality of research endeavors or publications to date, if any;
- commitment to health-oriented research; and
- need for further research experience and training.

Any related comments that you may wish to provide would be welcomed. These references will be used by PHS committees of consultants in assessing candidates.

Complete the report in English on 8-1/2 x 11" sheets of paper. Return your reference report to the candidate sealed in the envelope as soon as possible and in sufficient time so that the candidate can meet the application submission deadline. References must be submitted with the application.

We have asked the candidate to provide you with a self-addressed envelope with the following words in the front bottom corner: "DO NOT OPEN—PHS USE ONLY." Candidates are not to open the references. Under the Privacy Act of 1974, RCA candidates may request personal information contained in their records, including this reference. Thank you for your assistance.

Type the name of the principal investigator/program director at the top of each printed page and each continuation page. (For type specifications, see PHS 398 Instructions.)

INSTITUTIONAL NATIONAL RESEARCH SERVICE AWARD (Substitute Page)

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Face Page Description and Personnel, Table of Contents (Form Pages 1, 2, and this NRSA Substitute Form Page 3) Detailed Budget for Initial Budget Period (NRSA Substitute Form Page 4) Budget for Entire Proposed Period of Support (NRSA Substitute Form Page 5) Biographical Sketch—Principal Investigator/Program Director (Not to exceed four pages)	1
Other Biographical Sketches (Not to exceed four pages for each)	
Resources	
Research Training Program Plan	
Introduction to Revised Application (Not to exceed 3 pages) Introduction to Supplemental Application (Not to exceed one page) A. Background B. Program Plan 1. Program Direction 2. Program Faculty 3. Proposed Training 4. Trainee Candidates C. Recruitment of Individuals from Underrepresented Racial/Ethnic Groups D. Responsible Conduct of Research E. Progress Report (Competing Continuation Applications Only) F. Human Subjects Protection of Human Subjects (Required if Item 4 on the Face Page is marked "Yes") Inclusion of Women (Required if Item 4 on the Face Page is marked "Yes") Inclusion of Children (Required if Item 4 on the Face Page is marked "Yes") Data and Safety Monitoring Plan (Required if Item 4 on the Face Page is marked "Yes" and a Phase I, II, or III clinical trial is proposed) G. Vertebrate Animals H. Consortium/Contractual Arrangements Checklist The Acerity and size must and form to limit are sided in RIAS 200 Secretific Instructions The Acerity and size must are form to limit are sided in RIAS 200 Secretific Instructions The Acerity and size must are form to limit are sided in RIAS 200 Secretific Instructions The Acerity and size must are form to limit are sided in RIAS 200 Secretific Instructions The Acerity and size must are form to limit are sided in RIAS 200 Secretific Instructions The Acerity and size must are form to limit are sided in RIAS 200 Secretific Instructions The Acerity and size must are form to limit are sided in RIAS 200 Secretific Instructions The Acerity and size must are form to limit are sided in RIAS 200 Secretific Instructions The Acerity and size must are form to limit are sided in RIAS 200 Secretific Instructions The Acerity and size must are form to limit are sided in RIAS 200 Secretific Instructions The Acerity and size must are form to limit are sided in RIAS 200 Secretific Instructions The Acerity and size must are form to size and size are size and si	
*Type density and size must conform to limits provided in PHS 398 Specific Instructions.	
Appendix (Five collated sets. No page numbering necessary for Appendix.)	Check if Appendix is included

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NRSA Initial Budget Period Substitute Page

Principal Investigator/Program Director: (Last, first, middle)

DETAILED BUDGET FOR INITIAL BUDGET PERIOD DIRECT COSTS ONLY (NRSA Substitute Page)	FROM		THROUGH
STIPENDS			DOLLAR TOTAL
PREDOCTORAL			
	No. Reque	ested:	\$
POSTDOCTORAL (Itemize)			
	No. Requ	ested:	\$
OTHER (Specify)	No. Reque		\$
TOTAL STIPENDS		—	\$
TUITION, FEES, AND INSURANCE (Itemize)			\$
TRAINEE TRAVEL (Describe)			\$
TRAINEE RELATED EXPENSES			\$
TOTAL DIRECT COSTS FOR INITIAL BUDGET PERIOD (Also enter on Face Pa	nge, Item 7)	\$	*



Principal Investigator/Program Director: (Last, first, middle)



BUDGET FOR ENTIRE PROPOSED PERIOD OF SUPPORT DIRECT COSTS ONLY (NRSA Substitute Page)

BUDGET CATEGORY	INI	TIAL BUDGET PERIOD		ADDITIONAL YEARS OF SUPPORT REQUESTED						
TOTALS	(fron	n Form Page 4)		2nd		3rd		4th		5th
PREDOCTORAL STIPENDS	No.	\$	No.	\$	No.	\$	No.	\$	No.	\$
POSTDOCTORAL STIPENDS										
OTHER STIPENDS										
TOTAL STIPENDS										
TUITION, FEES, AND INSURANCE										
TRAINEE TRAVEL										
TRAINEE RELATED EXPENSES										
TOTAL DIRECT COSTS										

JUSTIFICATION. For all years, explain the basis for the budget categories requested. Follow the instructions for the Initial Budget Period and include anticipated postdoctoral levels. No explanation is necessary for Training-Related Expenses.

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Principal Investigator/Program	Director	/1 act	firet	middle).	
mincipal investigator/Program	Director	ıLası.	IIISL.	madie).	

Targeted/Planned Enrollment Table

This report format should NOT be used for data collection from study participants.

Study Title:

Total Planned Enrollment:

TARGETED/PLANNED E	ENROLLMENT: N	umber of Subject	s
Ethnic Category		Sex/Gende	r
	Females	Males	Total
Hispanic or Latino			
Not Hispanic or Latino			
Ethnic Category Total of All Subjects*			
Racial Categories			
American Indian/Alaska Native			
Asian			
Native Hawaiian or Other Pacific Islander			
Black or African American			
White			
Racial Categories: Total of All Subjects *			

^{*}The "Ethnic Category Total of All Subjects" must be equal to the "Racial Categories Total of All Subjects."

cipal Investigator/Program Director (Last. first. middle	dle):

Inclusion Enrollment Report

This report format should NOT be Study Title:	e used for da	ta collectio	n from study	participants.	
Total Enrollment:	Protocol	Number:			
Grant Number:					
PART A. TOTAL ENROLLMENT REPORT: Number by Ethnic	of Subjects E		Date (Cumulativ	e)	
	Sex/Gender				
Ethnic Category	Females	Males	Unknown or Not Reported	Total	
Hispanic or Latino				**	
Not Hispanic or Latino					
Unknown (Individuals not reporting ethnicity)					
Ethnic Category: Total of All Subjects*				*	
Racial Categories					
American Indian/Alaska Native					
Asian					
Native Hawaiian or Other Pacific Islander					
Black or African American					
White					
More than one race					
Unknown or not reported					
Racial Categories: Total of All Subjects*				*	
PART B. HISPANIC ENROLLMENT REPORT: Num	ber of Hispar	nics or Latin	os Enrolled to	Date (Cumulative)	
Racial Categories	Females	Males	Unknown or Not Reported	Total	
American Indian or Alaska Native					
Asian					
Native Hawaiian or Other Pacific Islander					
Black or African American					
White					
More Than One Race					

Unknown or not reported

Racial Categories: Total of Hispanics or Latinos**

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**

^{*} These totals must agree.
** These totals must agree.

Principal Investigator/Program Director:

Additional Page	(Last,	first, middle)	o., og. a 2.				
BUDGET of RESI	EARCH INST	ITUTION	(STTR C	NLY)	FROM	Т	HROUGH
NAME AND ADDRESS OF RESEAR	RCH INSTITUTION						
PERSONNEL			%		DOLLAR AMO	UNT REQUE	STED (omit cents)
NAME	ROLE ON PROJECT	TYPE APPT. (months)	EFFORT ON PROJ.	INST. BASE SALARY	SALARY REQUESTED	FRINGE BENEFITS	TOTAL
	Principal Investigator						
	SUBTOTALS						\$
CONSULTANT COSTS							
EQUIPMENT (Itemize)							
SUPPLIES (Itemize by category)							
TRAVEL							
PATIENT CARE COSTS	INPATIENT						
ALTERATIONS AND RENOVATIONS (Itemize by category)							
OTHER EXPENSES (Itemize by ca	, , ,	gory)					
TOTAL DIRECT COSTS (also enter	as Consortium/Con	tractual Cost	s on Budget F	age of Small E	Business Concern)		\$
FACILITIES and ADMINISTRATIVE (also enter as Consortium/Contractu	E COSTS (show call ual Costs on Budget	culation) of Small Bus	iness Concerr	n)			\$
certification of Research II institution on this "Certification of Rebusiness concern) on the Face Page STTR project will be conducted joint performed by the small business con and development"); (2) the proposed business concern and the research less than 30 percent of the work will proportion of the proposed project to direction and control of the performacenter, the duly authorized represent	esearch Institution" pe of the application, the small busing the small busing the state of the small busing the state of the project is a constitution in which in the performed by the performed by earce of the project. I	rage, and by wathe small bushess concern han 30 percel cooperative resort less than 4 eresearch insach party, the fithe research	way of the sign siness concerr and the resea nt of the work esearch or res 40 percent of t stitution ("perfor s small busines n institution is	nature of the of a and the resea arch institution will be perform earch and dev he work will be ormance of res as concern will a contractor-op	fficial signing for ap arch institution certi in which not less the led by the research elopment effort to be e performed by the earch and analytic be the primary par perated federally fu	plicant organi, fy jointly that: nan 40 percent institution ("coe conducted is small busines al work"); and ty that will exended research	zation (small (1) the proposed of the work will be coperative research jointly by the small s concern and not (3) regardless of the ercise management and development

(4) is free from organizational conflicts of interests relative to the STTR program; (5) did not use privileged information gained through work performed for an STTR agency or private access to STTR agency personnel in the development of this STTR grant application; and (6) used outside peer review, as appropriate, to evaluate the proposed project and its performance therein. Signature of Duly Authorized Representative Printed Name Title Date of Signature

STTR Additional Page
Research Institution Certification
Modular Applications ONLY

Principal Investigator/Program Director: (Last, first, middle)

Certification of Research Institution f	or
Small Business Technology Transfer G	rants

Through the signature below of the duly authorized representative of the research institution on this "Certification of Research Institution" page, and by way of the signature of the official signing for applicant organization (small business concern) on the Face Page of the application, the small business concern and the research institution certify *jointly* that:

- (1) the proposed STTR project will be conducted jointly by the small business concern and the research institution in which not less than 40 percent of the work will be performed by the small business concern and not less than 30 percent of the work will be performed by the research institution ("cooperative research and development");
- (2) the proposed STTR project is a cooperative research or research and development effort to be conducted jointly by the small business concern and the research institution in which not less than 40 percent of the work will be performed by the small business concern and not less than 30 percent of the work will be performed by the research institution ("performance of research and analytical work"); and
- (3) regardless of the proportion of the proposed project to be performed by each party, the small business concern will be the primary party that will exercise management direction and control of the performance of the project.

If the research institution is a contractor-operated federally funded research and development center, the duly authorized representative of the contractor-operated federally funded research and development center certifies, additionally, that it:

- (4) is free from organizational conflicts of interests relative to the STTR program
- (5) did not use privileged information gained through work performed for an STTR agency or private access to STTR agency personnel in the development of this STTR grant application; and
- (6) used outside peer review, as appropriate, to evaluate the proposed project and its performance therein.

Signature of Duly Authorized Representative	Date of Signature	
Printed Name and Title of Duly Authorized Representative		

Mailing address for application

Use this label or a facsimile

CENTER FOR SCIENTIFIC REVIEW
NATIONAL INSTITUTES OF HEALTH
6701 ROCKLEDGE DRIVE
ROOM 1040 – MSC 7710
BETHESDA, MD 20892-7710

Applicants who wish to use express mail or overnight courier service use this address, but change the zip code to 20817. The telephone number is 301-435-0715.

C.O.D. applications will not be accepted.

For application in response to RFA

Use this label or a facsimile

IF THIS APPLICATION IS IN RESPONSE TO AN RFA, be sure to put the RFA number in line 2 of the application face page. In addition, after duplicating copies of the application, cut along the dotted line below and staple the RFA label to the bottom of the face page of the original and place the original on top of your entire package. Failure to use this RFA label could result in delayed processing of your application such that it may not reach the review committee on time for review. **Do not use** the label unless the application is in response to a specific RFA. Also, applicants responding to a specific RFA should be sure to follow all special mailing instructions published in the RFA.

RFA	No.		



Mailing address for application

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